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## **Sensors, Instrumentation, Data Acquisition, and Visualization (SIDAV)**

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## Dense Arrays

- **Common among all groups in NEES and Civil Engineering**
- **Required for improved characterization and discovery of new phenomena**
- **To accomplish**
  - cheaper data (sensor, conditioning)
  - miniaturization
  - wireless where possible

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# Instrumentation

- **need to identify the common characteristics for NEES sites**
  - $10^{-6}$  to 10g for accelerometers
- **need to identify what's available and what's being developed that fits our needs (or is close)**
- **Funding - TINMMINEES**
  - existing centers (WIMS, DARPA), Phase II, MRI?

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- short-term vs. long term
  - operational by Sept. 2004
  - operating until 2014

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# Data Acquisition

- **commonality in hardware**
  - **NEES shared technical support**
  - **need for flexibility in vendors, data sources, future capabilities**
- **commonality in software**
  - **web-based data acquisition**
  - **interface with NEES POP**

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- **We suggest creating a NEES sensor group**
  - one representative from each awardee
  - teleparticipation
- **This group will form task force (3-4 people) to formulate NEES needs and evaluate development options designated by the awardee council with input from SI**